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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | ATTORNEY DOCKET NO. CONFIRMATION NO. | |
|---|-------------------|-----------------------|-------------------------|--------------------------------------|--|
| 10/077,719 | 02/15/2002 | Victorio C. Rodriguez | PS 00-07-01 2639 | | |
| 21006 | 7590 07/01/2003 | | | | |
| DONALD A BERGQUIST | | | EXAMINER | | |
| PATENT SERVICES COMPANY P O BOX 360590 STRONGSVILLE, OH 441360010 | | | PAK, JOHN D | | |
| STRUNGSVI | LLE, OH 441300010 | | ART UNIT PAPER NUMBER | | |
| | | | 1616 | 77 | |
| | | | DATE MAILED: 07/01/2003 | / | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | , | Applicati n No |). | Applicant(s) | — |
|--|--|---|--|--|---|
| Office Action Summary | | 10/077,719 | | RODRIGUEZ, VICTORIO C. | |
| | | Examiner | | Art Unit | |
| | · | JOHN D PAK | • | 1616 | |
| | The MAILING DATE of this communicati n ap | 1 | er sheet with the co | | |
| Period fo | • • | | | | |
| THE N - Exter after - If the - If NO - Failui - Any n eame | ORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION usions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a re period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statu eply received by the Office later than three months after the maili d patent term adjustment. See 37 CFR 1.704(b). | 136(a). In no event, how ply within the statutory m d will apply and will expirite. cause the application | wever, may a reply be time inimum of thirty (30) days e SIX (6) MONTHS from the to become ABANDONED | ely filed will be considered timely. he mailing date of this communication. (35 U.S.C. § 133). | |
| Status | Responsive to communication(s) filed on | | | | |
| 1) <u>□</u> 2a)□ | · · · · · · · · · · · · · · · · · · · | ——· This action is non- | final | | |
| 3)□ | Since this application is in condition for allow | | | osecution as to the merits is | • |
| · | closed in accordance with the practice unde | r Ex parte Quayle | e, 1935 C.D. 11, 4 | 53 O.G. 213. | |
| • | on of Claims | | | | |
| | Claim(s) 1 and 5-10 is/are pending in the ap | | | | |
| | 4a) Of the above claim(s) is/are withdra | awn from conside | eration. | | |
| · | Claim(s) is/are allowed. | | | | |
| • | Claim(s) <u>1 and 5-10</u> is/are rejected. | | | | |
| | Claim(s) is/are objected to. | | | | |
| | Claim(s) are subject to restriction and/ on Papers | or election requir | ement. | | |
| | The specification is objected to by the Examin | ier. | | | |
| •— | Γhe drawing(s) filed on is/are: a) ☐ acc | | cted to by the Exan | niner. | |
| ٠٠٠ | Applicant may not request that any objection to t | | | | |
| 11)[| The proposed drawing correction filed on | | | | |
| ŕ | If approved, corrected drawings are required in r | | | • | |
| 12) | The oath or declaration is objected to by the E | xaminer | | | |
| Priority u | inder 35 U.S.C. §§ 119 and 120 | • | | | |
| 13) | Acknowledgment is made of a claim for foreign | gn priority under 3 | 35 U.S.C. § 119(a) | -(d) or (f). | |
| a)[| ☐ All b)☐ Some * c)☐ None of: | | | | |
| | 1. Certified copies of the priority documer | nts have been red | ceived. | | |
| | 2. Certified copies of the priority documer | nts have been red | eived in Application | on No | |
| * S | 3. Copies of the certified copies of the pri application from the International B see the attached detailed Office action for a lis | Bureau (PCT Rule | : 17.2(a)). | - | |
| | cknowledgment is made of a claim for domes | | • | | |
| • |) ☐ The translation of the foreign language p | | | | |
| | Acknowledgment is made of a claim for dome | | | | |
| Attachmen | t(s) | | _ | | |
| 2) Notic | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) | 4) [5) [4. 6) [| | (PTO-413) Paper No(s) atent Application (PTO-152) | |
| .S. Patent and Ti | rademark Office | | | | |

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Claims 2-4 and 11 have been canceled. Claims 1 and 5-10 are now pending in this application.

Claims 1 and 5-10 are generic to a plurality of disclosed patentably distinct species comprising a non-enzyme compound that increases the presence of cell-specific carbonic anhydrase enzymes in the brain, such as for example, sulfonylamido derivatives of histamine, NSAID or zinc. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

It is noted that the cancellation of the above noted claims was in response to a telephonic restriction requirement that was made by the Examiner on 1/8/2003. See the interview summary record of Paper No. 3. The Examiner also required an election of a species (same as above). Applicant's attorney, Mr. Bergquist elected the invention Group II on 1/8/2003. In the reply and amendment of 1/22/2003, Mr. Bergquist elected sulfonylamido derivatives of histamine is the single disclosed species. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a))

Applicant is advised that in claim 10, "sufonylamido" is a misspelling. There is a missing "l" after "su".

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior

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art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 5-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined teachings of Tozer et al., EP 680960 and Medline abstract 1999441621.

Tozer et al. teach that sufonylamido derivatives of histamine are histamine H_3 receptor antagonists. See pages 3103 and 3107 (last paragraph).

EP 680960 teaches that histamine H₃ receptor antagonists are used to treat Alzheimer's disease (p. 3, lines 31-33; p. 18, lines 35-36). Medline abstract 1999441621 teaches also that H₃ receptor antagonists are suggested for treating dementia.

The difference between the claimed invention and the cited references is that the references do not (i) specifically disclose sulfonylamido derivatives of histamine for conditions of aging such as Alzheimer's Disease, and (ii) specifically disclose the increasing effect of sulfonylamido derivatives of histamines for cell-specific carbonic anhydrase enzyme in the brain.

However, it is the Examiner's position that one having ordinary skill in the art would have been motivated from the known H₃ receptor antagonistic activity of sulfonylamido derivatives of histamine to administer such derivatives to treat Alzheimer's disease and dementia. While the actual mechanism of increasing the presence of cell-specific carbonic anhydrase enzymes in the brain is not elucidated by the cited references, such mechanism would have necessarily have been obtained after administering the very same sulfonylamido derivatives

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feature.

of histamine. Since the same substance is administered to patients with the same condition, the same effect must be obtained. Applicant's pharmaceutically effective, non-toxic amount language is noted, but there is insufficient evidence that an amount that provides H₃ receptor antagonistic activity that is effective to treat Alzheimer's and dementia is not within or overlaps with an amount that increases the presence of cell-specific carbonic anhydrase enzymes in the brain to treat Alzheimer's and dementia. In the absence of such evidence, treatment of Alzheimer's and dementia with H₃ receptor antagonistic activity is deemed to meet the claim

Modes of administration such as IM or IV injection or ingestion are typical of drug delivery, and such modes of administration would have been well within the skill of the ordinary skilled artisan in this medical field.

Therefore, the claimed invention, as a whole, would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made, because every element of the invention and the claimed invention as a whole have been fairly suggested by the teachings of the cited references.

For these reasons, no claim can be allowed at this time.

A facsimile center has been established in Technology Center 1600. The hours of operation are Monday through Friday, 8:45 AM to 4:45 PM. The telecopier numbers for accessing the facsimile machines are (703) 308-4556 or (703) 305-3592.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Examiner Pak whose telephone number is (703) 308-4538. The Examiner can normally be reached on Monday through Friday from 7:30 AM to 4 PM.

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If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Mr. Thurman Page, can be reached on (703) 308-2927.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-1235.

JOHN PAK PRIMARY EXAMINER GROUP 1600